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China s solar power generation planning scheme

Overview

Why is China interested in solar photovoltaic technology?

Initially, China prioritized wind power for renewable energy development due to its well-established technology. However, the Key Points of New Energy and Renewable Energy Industry Development Planning 2000–2015, published in 2000, marked the beginning of China's interest in solar photovoltaic technology .

Will China develop solar photovoltaic power generation vigorously?

According to the national development strategy, China will develop solar photovoltaic power generation vigorously. Large-scale development of solar photovoltaic requires a lot of financial support, thus, how to achieve development goals with minimum cost is a meaningful study and can provide practical significance for policy studies.

Why does China have a bright future for solar PV power development?

While policy challenges need to be addressed, it is believed that China has bright prospects of growth in solar PV power development for three main reasons: Firstly, as the biggest energy consumers and largest emitter of greenhouse gases, China faces a great pressure of developing renewable energy.

When did China start generating solar power?

China started generating solar photovoltaic (PV) power in the 1960s, and power generation is the dominant form of solar energy (Wang, 2010). After a long peroid of development, its solar PV industry has achieved unprecedented and dramatic progress in the past 10 years (Bing et al., 2017).

What is the optimal development path for China's solar PV power?

Fig. 4 shows the optimal development path for China's solar PV power under the base case. The solar PV power development target for 2050 will be

achieved in 2048, two years ahead of the schedule. The development trend will be maintained before 2040, but the a big vibration of the installed capacity appears after 2041.

How much solar energy can China generate a year?

The total potential for solar radiant energy is 1.7 × 1012 tons of standard coal equivalent per year for the country (Zhang et al., 2009a). China started generating solar photovoltaic (PV) power in the 1960s, and power generation is the dominant form of solar energy (Wang, 2010).

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Development of solar photovoltaic industry and ...

Solar photovoltaic (PV) technology has developed rapidly in the past decades and is essential in electricity generation. In this study, we demonstrate the relationship between PV incentive policies, technology ...

Study of China's optimal solar photovoltaic power development path to

In recent years, China's solar photovoltaic (PV) power has developed rapidly and has been given priority in the national energy strategy. This study constructs an energy-economy-environment

Multi-type power generation planning method for ...

1 INTRODUCTION. To address the energy crisis, transform the power source structure of the power system, and improve the penetration rate of renewable energy power, many countries have vigorously developed high ...

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